

EVALUATION OF INSTRUCTIONAL AND REMEDIAL SOFTWARE FOR SOL INSTRUCTION

The purpose of the review is to provide school divisions participating in the Standards of Learning Web-based Technology Initiative with evaluations and correlation of technology-based materials for instruction and remediation. The software review committee of a school division has reviewed the product and submitted the review.

- Only reviews of software/Web sites that are found to be effective for instruction and/or remediation are submitted by a school division.

School Division: Wise County Schools

Division Software Committee Contact: Pat Johnson

Title: Instructional Technology Coordinator

Phone #: 276.328.8017 ext 280 Email: pjohnson@wise.k12.va.us Fax: 276.328.3350

PRODUCT INFORMATION

- Title: Carnegie Learning's Cognitive Tutor
- Version #: V 2000-1.04
- Copyright Date: 2000
- Title of Series: Cognitive Mathematics Curriculum
- Title of Component [module], if applicable: Cognitive Tutor Geometry Curriculum
- Publisher/producer: Carnegie Learning, Inc.
- System Requirements: Windows - Student PC: Recommended - 98 (but will run on Win95, ME, 2000 or NT 4.0), 300MHz Pentium (but will run on 200MHz), 64MB RAM, 100 MB HD space, 1024 X 768 resolution (but will run on 800X600), 100 MB Ethernet (but will run on 10 MB), CD-ROM drive. SERVER (Recommended) - WINNT 4.0, 2000, or Novell Netware 4.2, 300 MHz Pentium II, 64 MB RAM, 500 MB HD free (will run on 200 MB HD free), CD-ROM drive. MACINTOSH Student PC: Recommended - Mac OS 9 (will run on OS 8.5.1), 233 MHz G3 (will run on 180 MHz Power Mac), 64 MB RAM, 100 MB HD free, 1024X768 (will run on 800X600), 100 MB ethernet (will run on 10 MB ethernet), CD-ROM drive. SERVER (Recommended) - AppleShare IP 6.3 Or Novel Netware 4.2 (will run on AppleShare or Novel Netware 3.1.2), 233 MHz G3 (will run on 180 MHz Power Mac), 64 MB RAM, 500 MB HD free (will run on 200 MB HD free, CD-ROM drive.

Standards Of Learning Correlations And Degree Of Correlation With the Content of the Software Product

MATHEMATICS:

☒ Geometry SOL #G13(Exceptional), SOL #G10(Exceptional), SOL #G8(Exceptional)

UTILIZATION AND TEACHER PREPARATION

We utilize the software for high school students in the regular classroom.

Type and degree of teacher training required to support effective utilization of the software/Web site.

Teacher training MUST be coordinated with the company (Carnegie Learning, Inc.) before the teachers will be able to utilize the software to its fullest potential.

Vendor teacher training available for this product - Yes

If "YES," is cost: included in purchase price; is training: on-site with company presenter; quality of training: exceeded expectations

Your additional comments:

TECHNICAL ASPECTS and TEACHER SUPPORT MATERIALS

Indicate if the software/Web site has been reviewed in either of the following sources:

- In *EvaluTech* (<http://www.evalutech.sreb.org/>) - Yes or No: No
- if yes - date reviewed:
- In *Educational Software Preview Guide* (ISTE) (<http://www.pen.k12.va.us/VDOE/Technology/imt.html>) - Yes or No: No
- if yes - date reviewed:

Ease of use Exceptional

Ease of installation and/or setup and/or login Exceptional

Scope of content Exceptional

Accuracy of content. Exceptional

Teacher's Guide and/or teacher support materials. Exceptional

Assessment - record keeping and reporting for student progress. Exceptional

Access for students with special needs Not Applicable

Authoring system which teachers can use to insert own problems and/or data Not Applicable

Pacing – control of by teacher Exceptional. Pacing – control by student Exceptional

Bilingual Not Applicable

Encourages student interactivity – creativity, higher order thinking, and problem solving Exceptional

Demonstration – specific aspect of a curriculum area Exceptional

Drill and practice with feedback to students Exceptional

Game format – comments and scoring appropriate Exceptional

Exploration by students Exceptional

Guided Practice Exceptional

Software program's Internet/Web use – the connection/linking from a non-Web-based program to Web sites Not Applicable

Internet/Web-based program/activity - the site's links to other sites Not Applicable

Multimedia media authoring – for student use to develop presentations Not Applicable

Logic and problem solving – student strategies and input Exceptional

Electronic reference Exceptional

Simulation Exceptional

Within program or Web site - Test/Quiz feature Exceptional

Personal productivity tools available for student or teacher use Exceptional

Tutorial mode Exceptional

Test/Quiz Generator mode – teacher tool Not Applicable

Data Recovery System Exceptional

Addresses student/user security issues Exceptional

If requires use of Web browser, list browser requirements, including lowest usable version #

If requires the use of “plug-ins”, list required plug-ins:

List the major strengths of this program/Web site: Cognitive Tutor Geometry assists in developing students' spatial reasoning ability. Through group activities, manipulatives and the Cognitive Tutor software, they are able to make the transition from concrete to abstract thinking. Using interwoven collaborative classroom exercises and software sessions, the teacher is empowered to implement our proven Learning by Doing pedagogy. The Cognitive Tutor guides each student down an individualized learning path. Paper and pencil tasks also actively engage students in solving complex mathematical tasks. As a result, students improve their mathematical understanding and reach a new level of self-confidence.